MUHAMMAD YASIR

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https://www.researchgate.net/profile/Muhammad-Yasir-13/research

SUMMARY

Dedicated and results-driven researcher with a passion for exploring complex scientific inquiries. Proficient in managing research tasks, designing experiments, recoding, analysis, and presentation of data. Proven experience of peer reviewed article writing and publications. Possess exceptional communication and interpersonal skills with a proven ability to work independently and as part of a team. I thrive in interdisciplinary environments to tackle multifaceted research challenges. My commitment to staying updated with the latest advancements and my ability to adapt to evolving methodologies make me an asset to any research team

EDUCATION

Ph.D. (Crop Germplasm Resources)

Chinese Academy of Agriculture Sciences, (CAAS)
Institute of Cotton Research Anyang, (ICRA)
People's Republic of China
March 2017-Dec 2019

I have worked on crop germplasm evaluation and genome wide association of phenotypic traits of 419 accession with SNP markers to find causal SNPs and candidate genes mediating drought and salt tolerance in cotton crop

M.Sc. (Hons) Plant Breeding and Genetics (PBG)

University of Agriculture Faisalabad (UAF)
Pakistan (2013-2015)

B.Sc. (Hons) Agriculture, (PBG)

University of Agriculture Faisalabad (UAF)
Pakistan (2009-2013)

RESEARCH EXPERIENCE

Postdoc Fellow (2021-TO DATE)

Zhejiang Agriculture & Forestry University
Hangzhou, People's Republic of China

Topic
Molecular characterization and validation of genes mediating node of first fruiting branch in upland cotton

Seed Research and Development Officer 2016-2017

TARA Crop Sciences |Pvt. Ltd | Lahore, Pakistan

Breeding, Evaluation, and management of maize hybrids for yield under hot climate adaptation. Data collection of multi-locational trials, Selection of Superior Hybrids for commercial cultivation registration

Research Internee (Feb 2013-july 2013)

Ayub Agriculture Research Institute, Faislabad
Pakistan

EXPERIMENTAL SKILLS

- Large-scale germplasm evaluation
- Phenotyping in Greenhouse, and field, Selfing and crossing of plants for selection of better parents and cross combinations.
- DNA, RNA extraction and cDNA preparation, Primer design and evaluation, Bioinformatics analysis
- Genome-wide association study (GWAS) analysis, SNP variation, haplotype analysis, PCA, QQ, and Manhattan plot visualization.
- PCR,qRT-PCR, and Gel electrophoresis.
- Plasmid construction, Virus-induced gene silencing (VIGS)
- Agrobacterium-mediated transformation
- Gene evaluation under abiotic stresses (drought, heat, salinity, Heavy Metals, Phytohormones, etc.)
- Western Blotting (WB)
- Gene Subcellular Localization

Software Skills

TASSEL, IGV, data visualization, and statistical analysis with R studio, GraphPad Prism, Figtree, Mega, Xlstat, DNAMAN, Advanced adobe Photoshop.

Conferences /Seminars

- Plant Genomics in China XIX (Chengdu, China) 19-22 (08-2018)
- International Seminar on Global change and pakistan Perspective, Climate, water and agriculture nexus a futuristic approach to fight hunger. (Faisalabad, Pakistan) (16-09-2014)

PUBLICATION DETAILS

1. Status and prospects of genome-wide association studies in cotton

Yasir, M., et al. (2022). **Frontiers in Plant Sciences (IF.5.6)** https://doi.org/10.3389/fpls.2022.1019347

2. A Genome-Wide Association Study Revealed Key SNPs/Genes Associated with Salinity Stress Tolerance in Upland Cotton

Yasir, M., et al. (2019) **Genes (IF 3.5)** https://doi.org/10.3390/genes10100829

3. *GhSBt* 1.8 mediates node of first fruiting branch in cotton

Yasir, M., Rong Junkang* (Target journal **IF>5)**

4. Genetic Insights: GhHSP70 Gene Family and Salt Stress Tolerance in Upland Cotton

Yurong Jiang, **Yasir Muhammad *** Submitted **(Physiologia Plantarum IF 5.01)**

5. Uncovering Drought Tolerance Mechanisms in Early Growth of Upland Cotton: Insights from GWAS of Seedling Traits

Yasir, M., et al. (Submitted **Industrial crops and products IF 5.9)**

6. Detection of QTLs for heading date based on a doubled haploid population from the cross of CASL7AS (Chromosome arm substitution line) and ZNL12 (elite Chinese wheat cultivar)

Shaoxin Wu, **Yasir Muhammad *** and Yuefen Cao*， Junkang Rong (Submitted **Journal of plant Biology IF 2.9**)

7. Identification and Characterization of Phytocyanin Family Genes in Cotton Genomes

Muhammad Bilal Tufail, **Muhammad Yasir** et al. (2023) **Genes (IF 3.5)** https://doi.org/10.3390/genes14030611

8. Incredible Role of Osmotic Adjustment in Grain Yield Sustainability under Water Scarcity Conditions in Wheat (Triticum aestivum L.)

Tahir Mahmood Muhammad Abdullah,Sunny, Ahmar,Muhammad Yasir Muhammad, Shahid Iqbal, **Muhammad Yasir,** et al.(2020) **Plants (IF.4.5)** https://doi.org/10.3390/plants9091208

9. Expression Patterns Divergence of Reciprocal F1 Hybrids Between Gossypium hirsutum and Gossypium barbadense Reveals Overdominance Mediating Interspecfic Biomass Heterosis

Li, T., Wang, F., **Yasir, M.,** et al. (2022).**Frontiers in Plant Sciences (IF. 5.6)**. HTTPs://doi.org/10.3389/fpls.2022.892805

10. Concurrent Effects of Drought and Heat Stresses on Physio-Chemical Attributes, Antioxidant Status and Kernel Quality Traits in Maize (Zea mays L.) Hybrids

Yousaf, M. I., Riaz, M. W., Jiang, Y., **Yasir, M.**, et al. (2022) **Frontiers in Plant Sciences (IF.5.6)** https://doi.org/10.3389/fpls.2022.898823

11. Genetic Mapping and Candidate Gene Prediction of a QTL Related to Early Heading on Wild Emmer Chromosome 7BS in the Genetic Background of Common Wheat

Fei Lu , Manxia Chen , Yanhao Zhao , Shaoxin Wu , **Muhammad Yasir** et al. **Agronomy (IF 3.7)** https://doi.org/10.3390/agronomy12051089

12. GWAS and haplotype analysis reveals Tdeld1-1A as a candidate gene responsible for glume pubescence in durum wheat

Xin hu, **Yasir Muhammad** *et al.* (target journal, **Journal of Genetics and Genomics (IF 5.9**)

13. Correlation analysis of stem hardness traits with fiber and yield-related traits in core collections of *Gossypium hirsutum*

Raza, Irum; HU, Daowu; Ahmad, Adeel; Li, Hongge; HE, Shoupu; Nazir, Mian Faisal; WANG, Xiaoyang; JIA, Yinhua; PAN, Zhaoe; Zhang, Peng; **Yasir, Muhammad** *et al.* **Journal of cotton Research (IF 2.8)**https://doi.org/10.1186/s42397-021-00082-8

14. Physiological and Biochemical Characteristics and Response Patterns of Salinity Stress Responsive Genes (SSRGs) in Wild Quinoa (*Chenopodium quinoa L.*) **Phyton-International Journal of Experimental Botany (IF 1.4)** dx.doi.org/10.32604/phyton.2022.022742

INTERNATIONAL EXPOSURE

China, Malaysia, Dubai, Sharjah, Abu Dhabi

LIST OF REFRENCES

Prof. Du Xiongming

leader of the Cotton Germplasm Program, and Dean of Cotton Germplasm Division
Institute of Cotton Research of Chinese Academy of Agricultural Sciences (ICR, CAAS)
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Prof. Rong Junkang

College of Advanced Agriculture Sciences, Zhejiang Agriculture and Forestry University (ZA&FU), Hangzhou, China
E-mail: junkangrong@126.com

Dr. Muhammad Tehseen Azhar

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Phone: +92-3017009298
E-mail: tehseenazhar@gmail.com